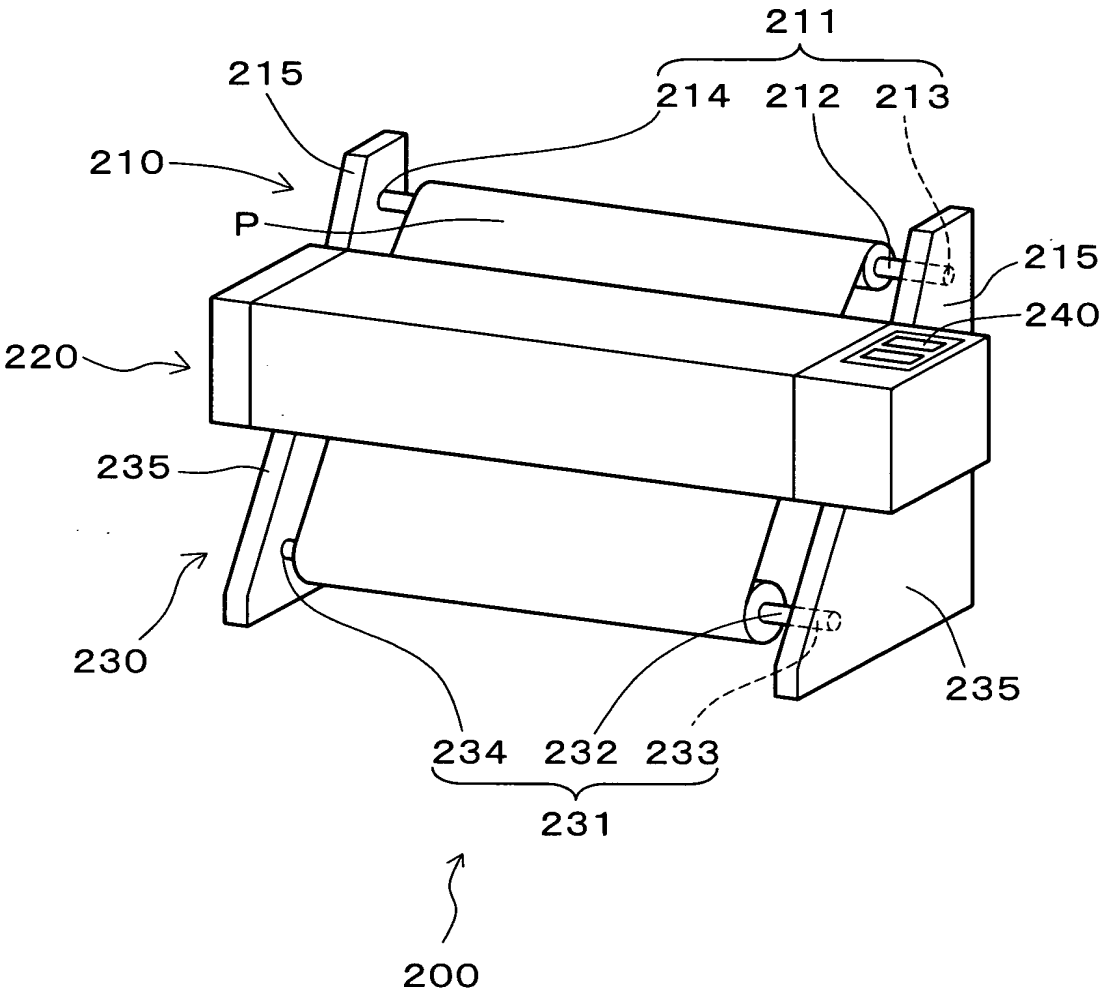
Fig.1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215
214
212
213
210
P
215
240
220
235
230
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234
232
233
231
200

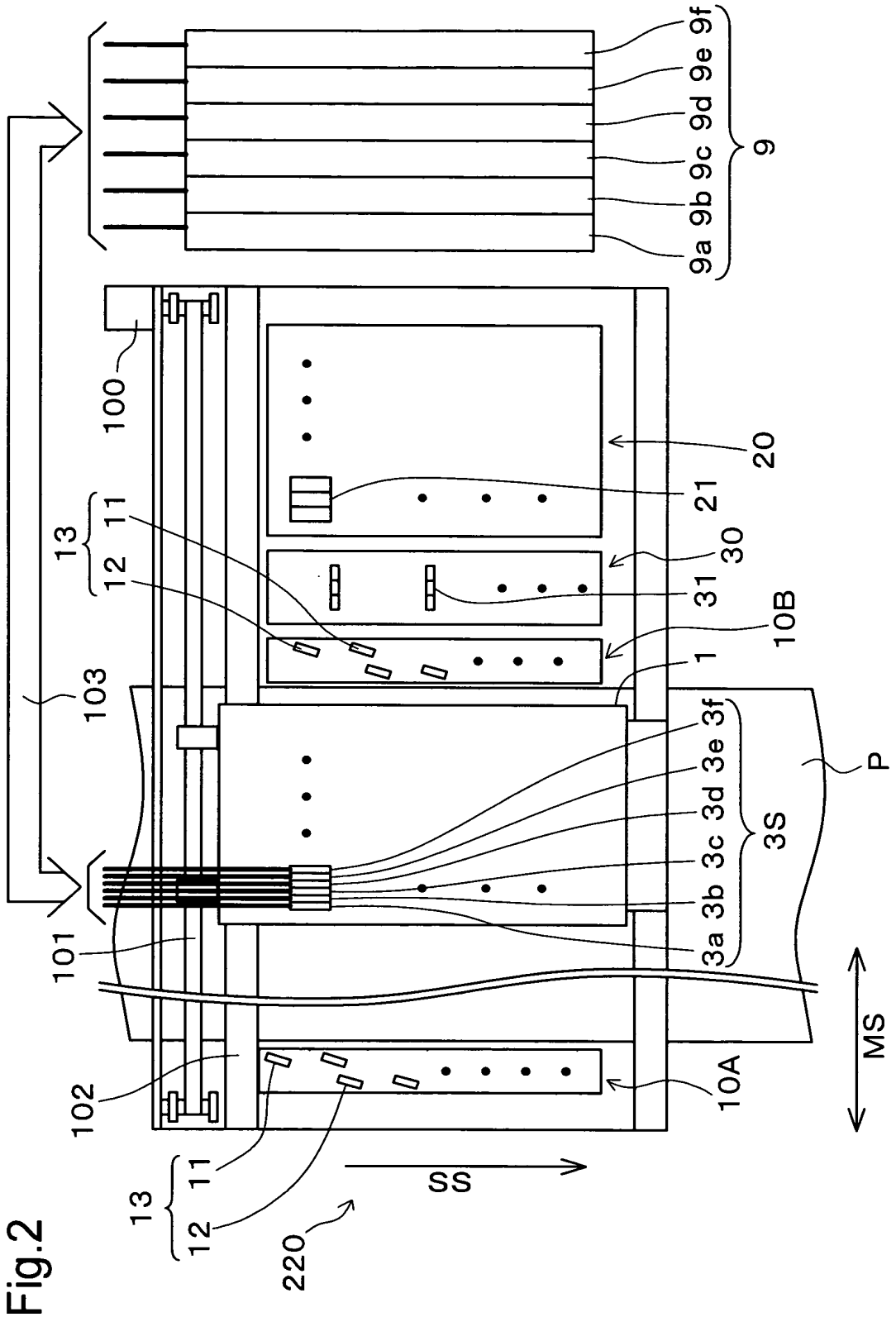

9a 9b 9c 9d 9e 9f
9
100
20
21
30
31
13
11
12
10B
1
103
3a 3b 3c 3d 3e 3f
3S
P
101
MS
102
10A
SS
13
11
12
220

Fig.2

Fig.3

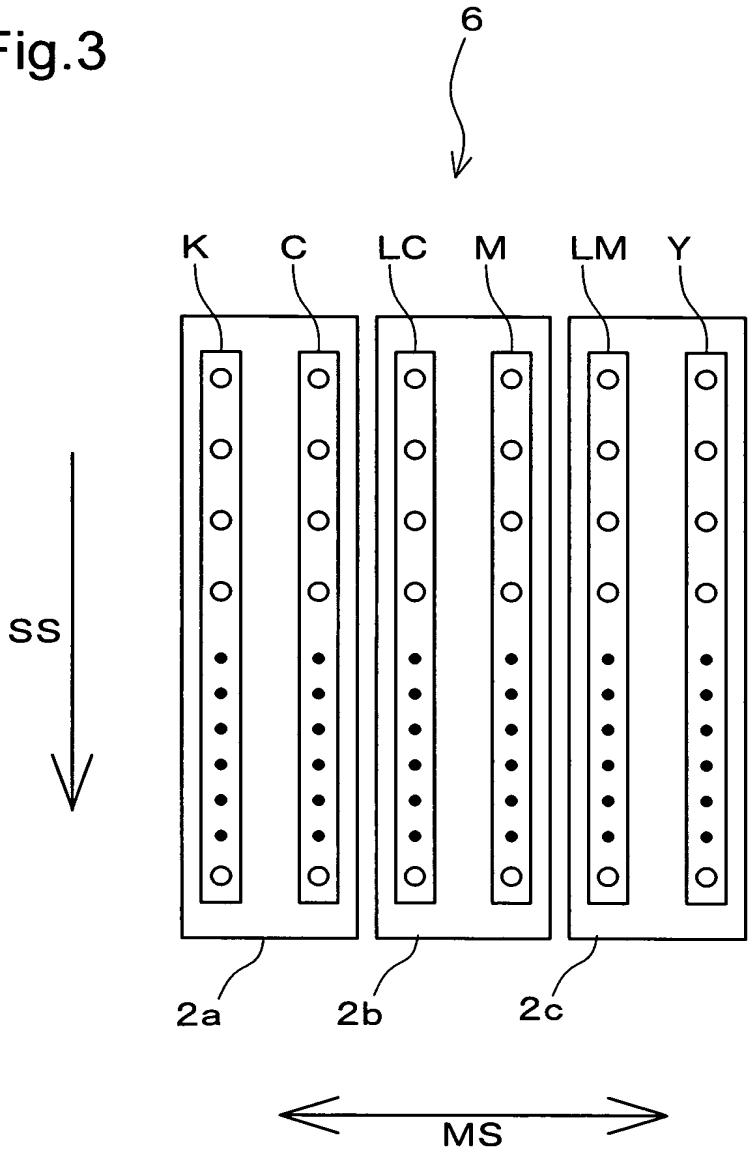


Fig.4

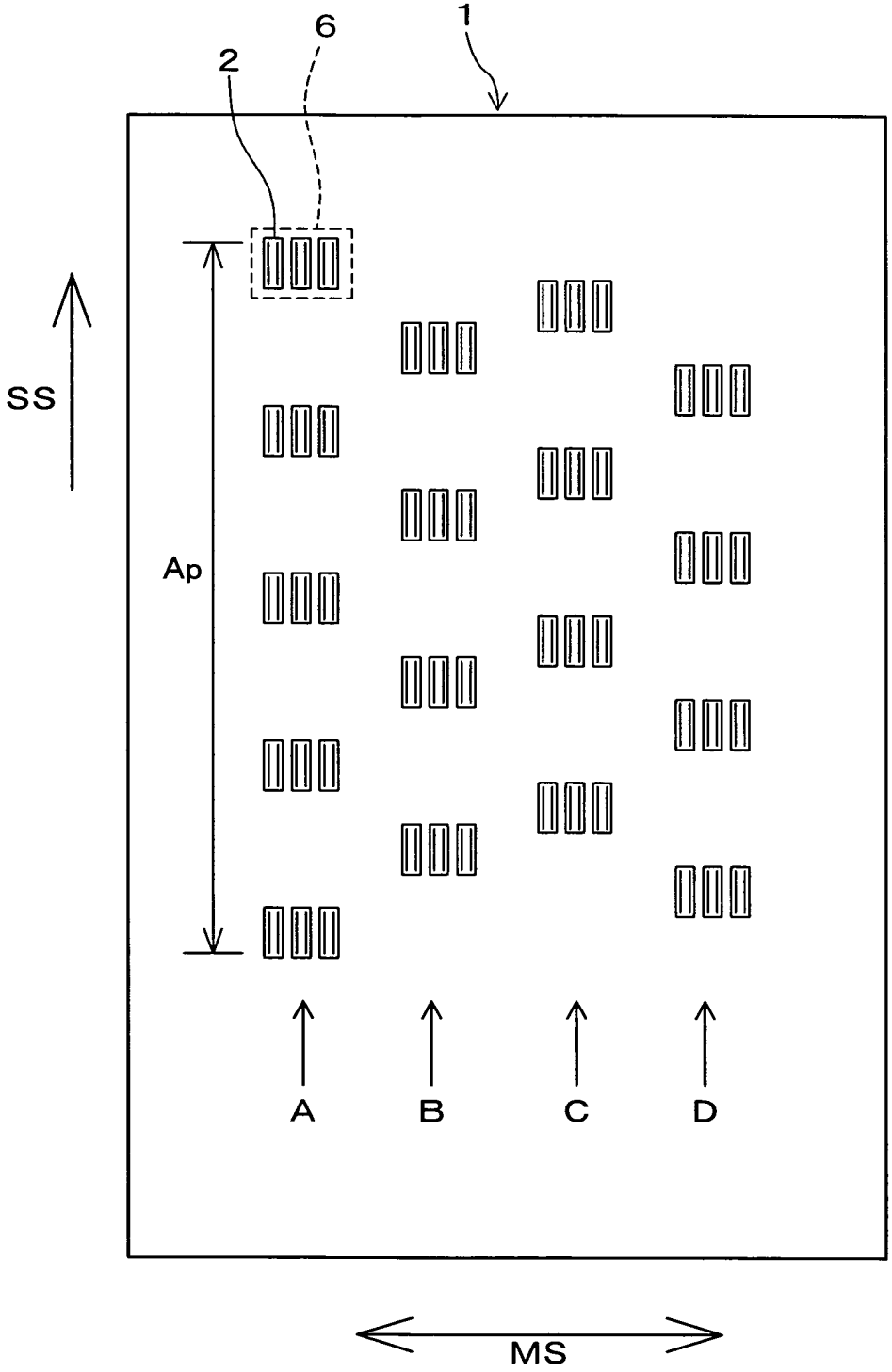


Fig.5

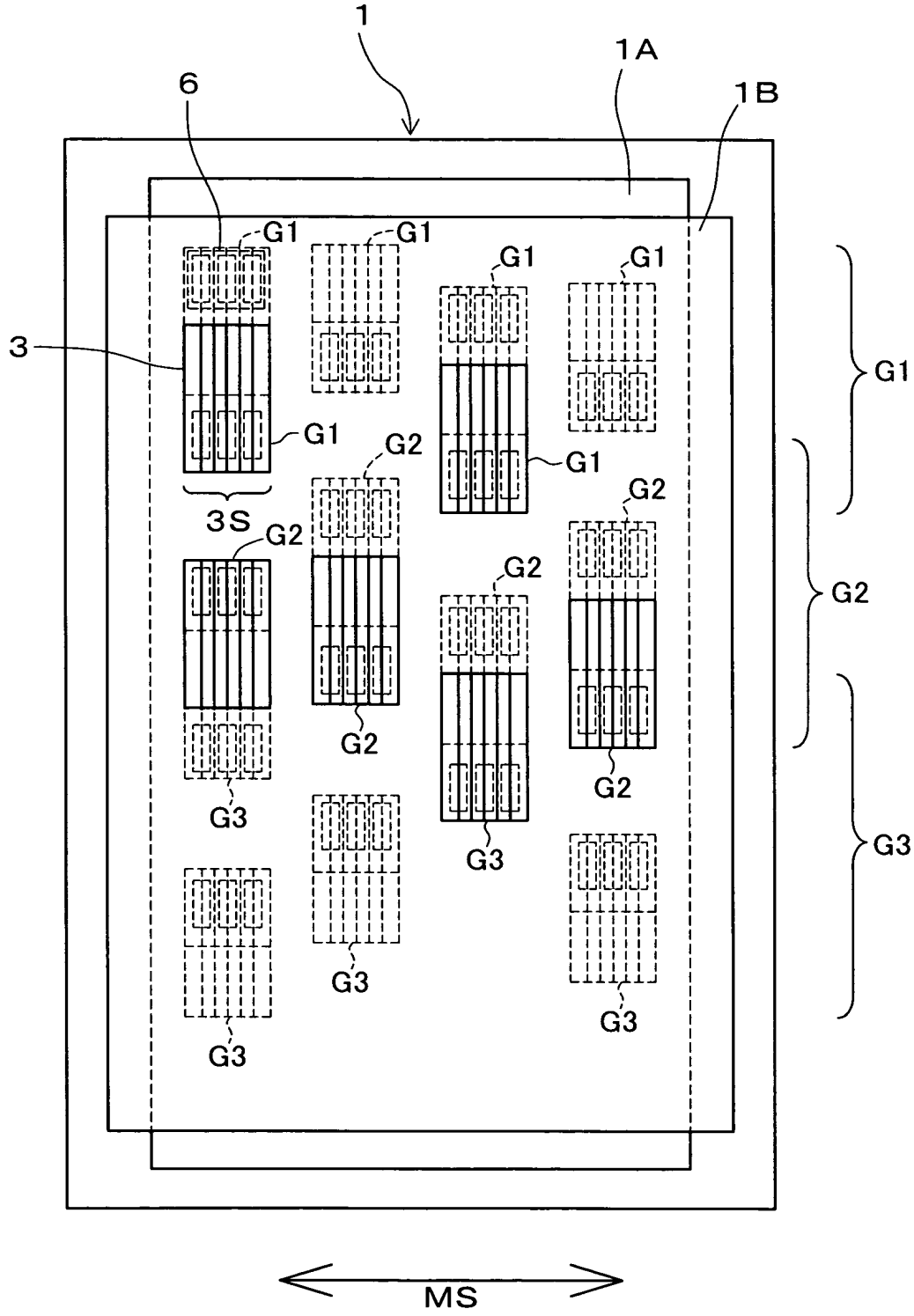
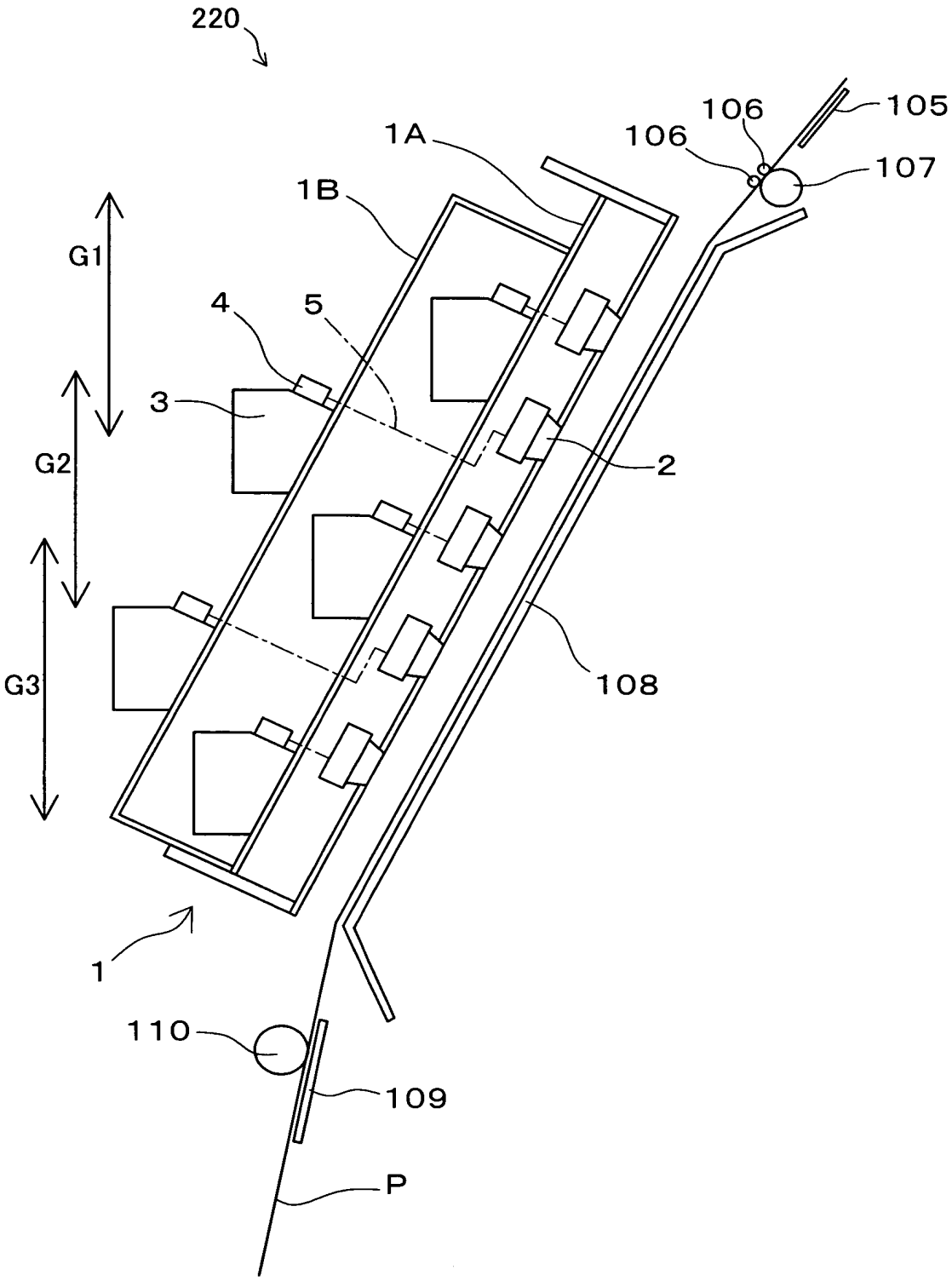
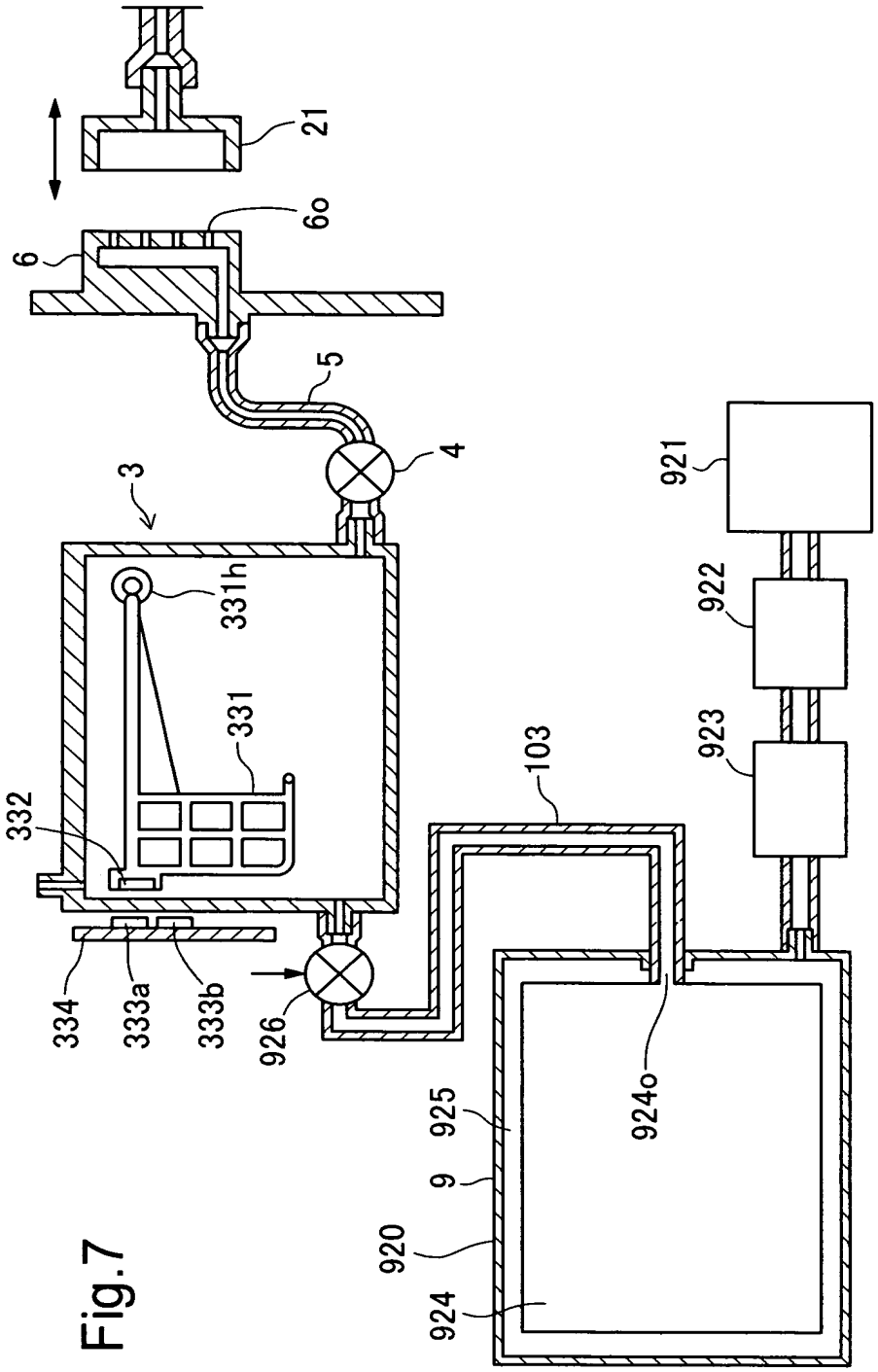


Fig.6




21
6o
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4
3
921
922
923
331h
331
103
332
334
333a
333b
926
924o
925
9
920
924

Fig.7

Fig.8

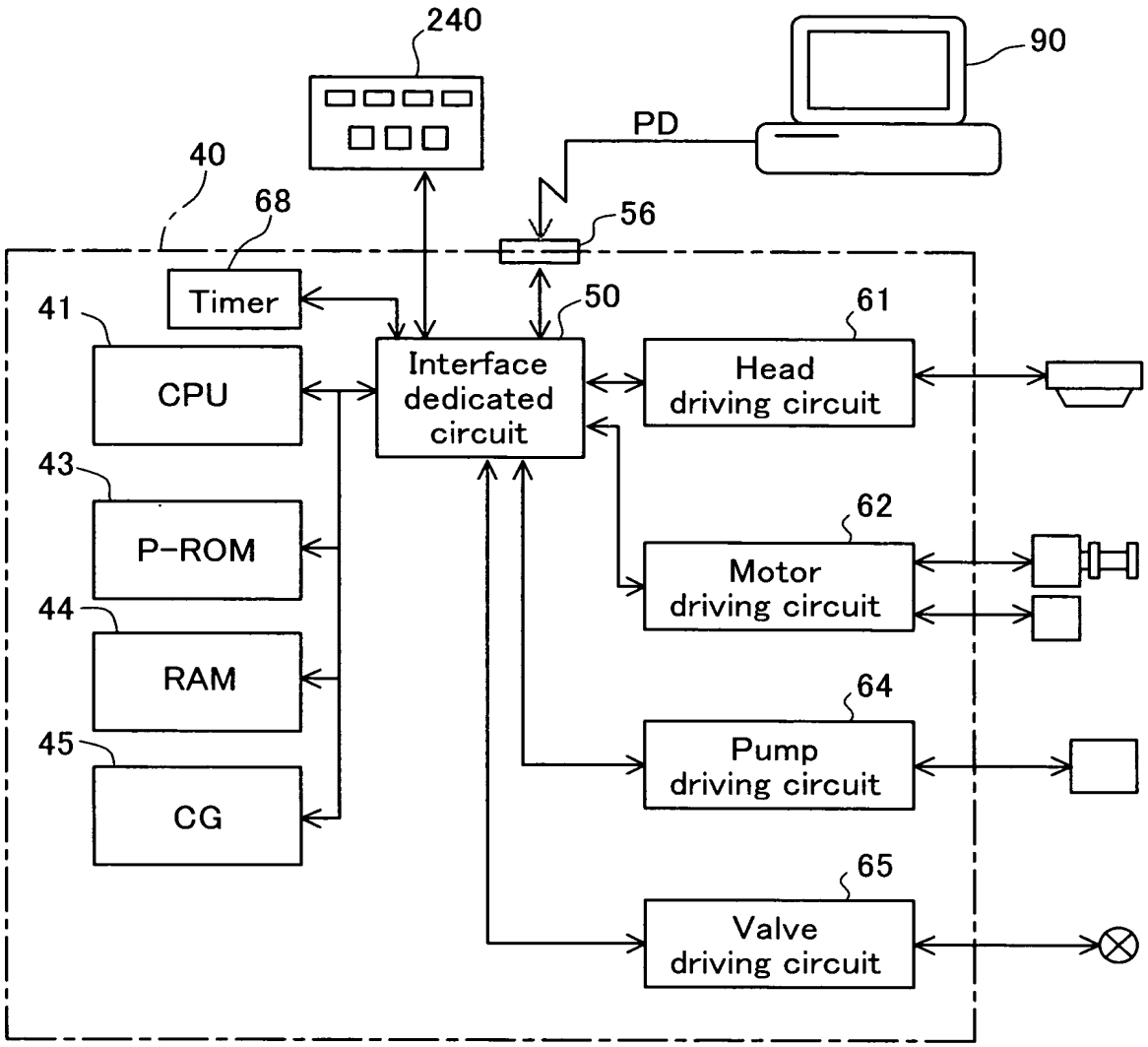
240
90
PD
40
68
56
Timer
50
41
61
CPU
Interface dedicated circuit
Head driving circuit
43
62
P-ROM
Motor driving circuit
44
RAM
64
Pump driving circuit
45
CG
65
Valve driving circuit

Fig.9

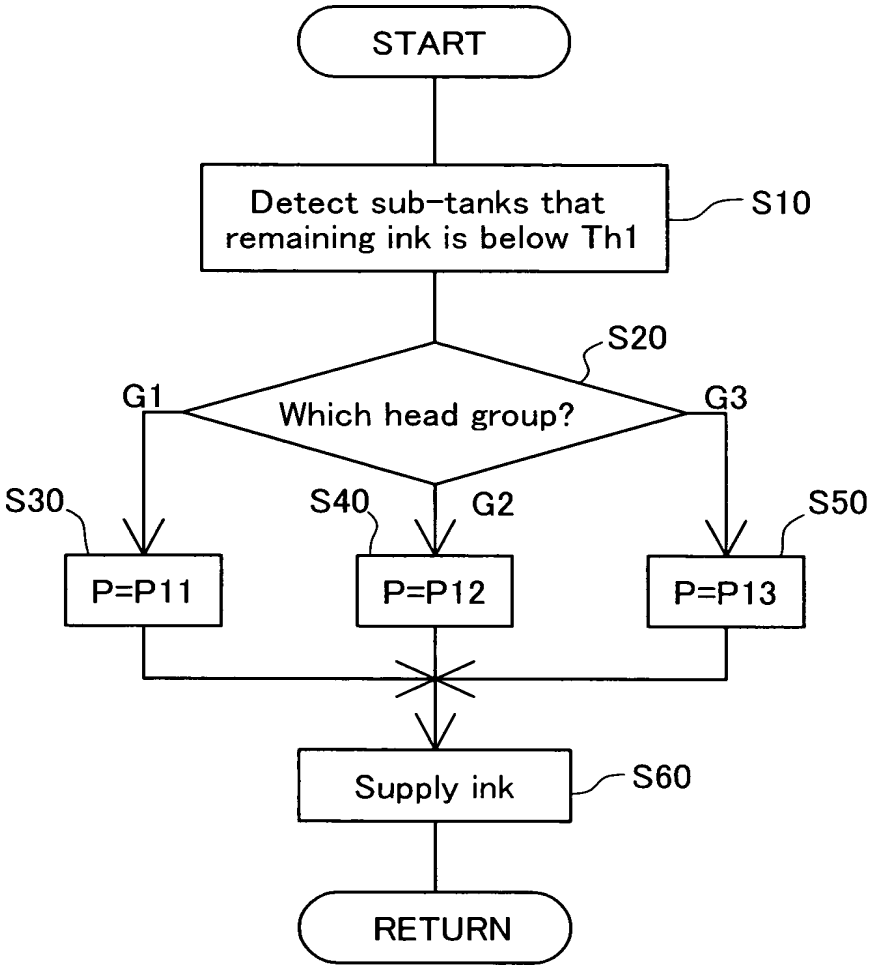
START
Detect sub-tanks that remaining ink is below Th1
S10
S20
Which head group?
G1
G3
G2
S30
S40
S50
P=P11
P=P12
P=P13
Supply ink
S60
RETURN

Fig.10

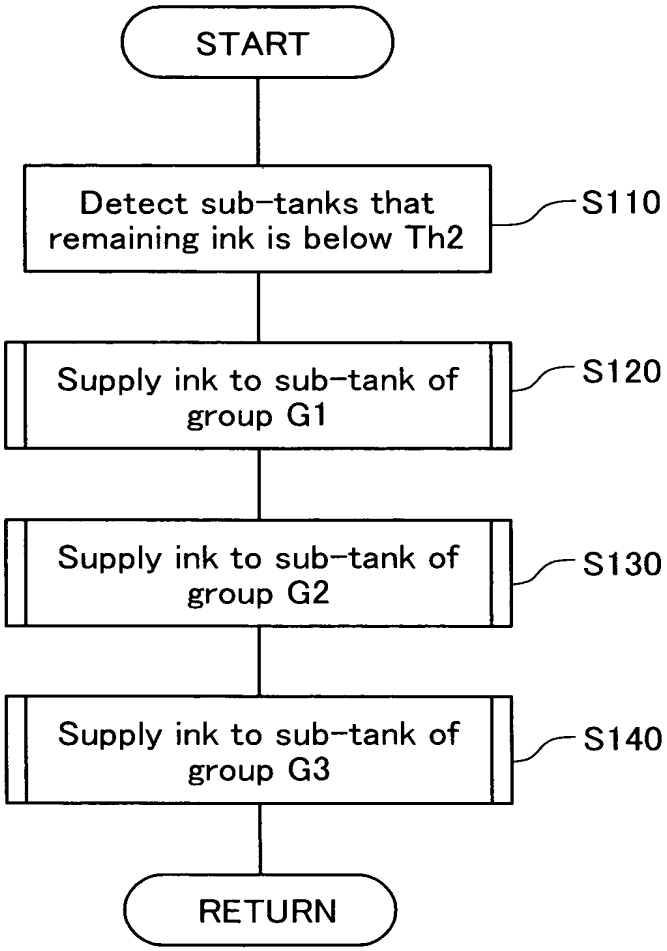
START
Detect sub-tanks that remaining ink is below Th2
S110
Supply ink to sub-tank of group G1
S120
Supply ink to sub-tank of group G2
S130
Supply ink to sub-tank of group G3
S140
RETURN

Fig.11

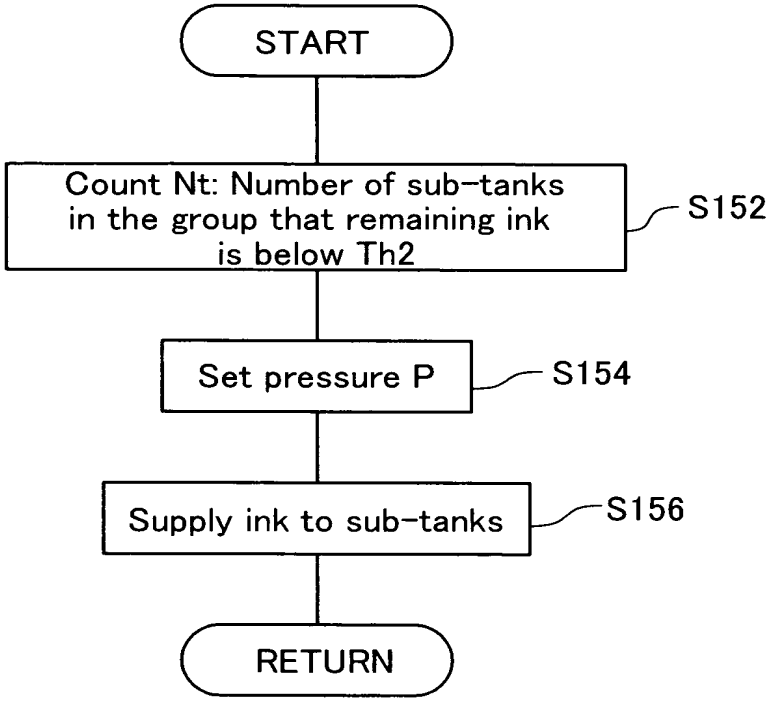
START
Count Nt: Number of sub-tanks in the group that remaining ink is below Th2
S152
Set pressure P
S154
Supply ink to sub-tanks
S156
RETURN

Fig.12

Sub-tank group / Number of sub-tank Nt	G1	G2	G3
1 or 2	P11	P12	P13
3 or 4	P21	P22	P23
5 or 6	P31	P32	P33